



COMDTINST 8274.1A
7 OCT 1992

COMMANDANT INSTRUCTION 8274.1A

Subj: AN/UYK-7 Maintenance Assist Module (MAM) Kits

Ref: (a) Afloat Supply Procedures Manual, COMDTINST M4400.17 (series)

1. PURPOSE. To update policy for the use and care of maintenance Assist Module (MAM) Kits in support of AN/UYK-7 Computer Sets installed on Coast Guard cutters. This instruction outlines the composition, stowage, use and maintenance of the MAM Kits. Users of this instruction will include 378' WHECs, 270' WMECs, and certain NESUs.
2. DIRECTIVES AFFECTED. Commandant Instruction 8274.1 is cancelled.
3. DISCUSSION. Numerous suspect printed circuit cards in the AN/UYK-7 are disposed of in accordance with the assigned Source, Maintenance, and Recoverability (SM&R) code, when, in fact, they are not faulty. Cutter personnel have no means of verifying the condition of suspect cards other than replacing them with new cards drawn from inventory. In most cases, replacement cards drawn from inventory are not returned to stock when the suspect card proves good. The new card is usually left in place and the suspect card is discarded. This is not a cost effective way of correcting casualties. In an effort to reduce maintenance costs of the AN/UYK-7, the In-Service Engineering Agent (ISEA) has developed MAM Kits to facilitate organizational level troubleshooting of the computer.
4. POLICY. Only MAM Kits shall be used to troubleshoot problems with the AN/UYK-7 Computer. Use of storeroom parts for troubleshooting purposes is not authorized. One MAM Kit has been issued at no cost to each cutter equipped with an AN/UYK-7 Computer.

5. CARE AND USE OF MAM KITS.

a. Composition.

- (1) Each kit consists of certain printed circuit cards and memory stacks that suffer high casualty rates. These kits are subdivided into a "Fixed Kit" and a "Variable Kit". The Fixed Kit contains cards which are common to all single bay AN/UYK-7s. The Variable Kit contains circuit cards which are peculiar to AN/UYK-7s used with the Mk 92 Mod 1 Fire Control System (FCS).
- (2) The kits were delivered with a listing of the cards showing their arrangement in the storage boxes. This is the definitive list for the MAM Kit. Part III, Section CF-OSI of the cutter's COSAL Manual also contains a list of the MAM cards.

b. Stowage. The kits were shipped in two electrostaticproof boxes which shall also serve as storage boxes for the kits. The kits shall be stored in a workspace. The kits shall not be stored in the cutter's storeroom under individual circuit card stock numbers. Although only a few of the circuit cards are electrostatically sensitive, handling of all the cards should be kept to a minimum and the individual cards should be kept wrapped in the original foil wrapper.

c. Use. If computer diagnostics indicate a particular card is suspect, the appropriate MAM card should be installed in place of the suspect card. If the problem is corrected, the MAM card is to be removed and a replacement card drawn from the storeroom installed. If the problem is not corrected, the MAM card is to be removed and the original card reinstalled. If a storeroom spare is not available to replace a defective card, the MAM card may be used as a temporary repair if operational requirements dictate. A replacement card must be requisitioned immediately to replenish the MAM kit.

5. d. Maintenance. If a card is suspected bad, it should be inserted into a known good AN/UYK-7 and tested. If the card is proved bad, it should be disposed of in accordance with the assigned SM&R code and a new card requisitioned using unit NAVORD funds. The MAM Kit inventory shall be validated annually in accordance with reference (a).
6. ACTION. Area commanders, commanders of maintenance and logistics commands, and unit commanding officers shall ensure compliance with this instruction.

/s/
P. A. BUNCH
Chief, Office of Engineering,
Logistics and Development